



Model 820457

ULTRASONIC WIND SENSOR



Standard outputs include analog voltage output and RS-232 serial connections. For use in industrial settings where noise immunity is essential, calibrated 4-20 mA current and RS-485 serial outputs are also included. A variety of serial data formats are available, including ASCII text. SDI-12 model is also available-- please specify at the time of ordering.

For extended cold-weather use, Model 820458 features thermostatically controlled heaters in transducer and housing surfaces. Wind speed range reduced with the heated model.



APPLICATIONS:

- Ambient Air Monitoring
- Environmental Surveys
- Government
- Homeland Security & Military

ORDERING INFORMATION:

- 2D Unheated Sonic P/N: 820457
- Cable Assembly for 820457: 400047
- 2D Heated Sonic P/N: 820458
- Cable Assembly for 820458: 400048
- Mounting Kit: 63633
- 24Vdc Power Supply for 820458 heaters: 10898

SPECIFICATIONS Model 820457

Wind Speed

Range: Heated 0-65 m/s & Unheated 0-75 m/s

Resolution: 0.01 m/s **Starting Threshold:** 0.01 m/s

Accuracy: $\pm 2\% \pm 0.1 \text{ m/s} (30 \text{ m/s}); \pm 3\% (65 \text{ m/s})$

Response Time < 0.25 seconds

Wind Direction

Range:0 to 360 degreesResolution:0.1 degreeStarting Threshold:0.01 m/sAccuracy:± 2 degreesResponse Time:< 0.25 seconds</td>

Serial Output: RS232 or RS485

Formats: ASCII, ASCII polled, NMEA, RMYT SDI -12

Baud: 1200, 4800, 9600, 19200, 38400

Wind Units:m/s, knots, mph, kmphWind Format:Speed & Direction or U & VStatus Indicator:Standard with ASCII & NMEA

Analog Output

Range: 0-5000 mV or 4-20 mA

Analog Speed Scale: 0-100 m/s

Analog Direction Scale: 0-360 or 0-540 degrees

Output Update Rate: User Adjustable: 0.1 to 20 Hz

Power Requirement

Sensor: 10-30 VDC < 20 mA typical

Heater: 24 VDC, 2.5 A (Model 820458 Only)

Environmental

Operating Temperature: -40 to +60°C **Protection Class:** IP65

Physical

Dimensions: 29 cm high x 11 cm wide

Weight: 0.4 kg (0.9 lb) **Shipping Weight:** 1.6 kg (3.5 lb)



Specifications are subject to change at any time.